



SAFETY DATA SHEET

Product: MARC 154 PRO-GUARD PLUS

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 154 PRO-GUARD PLUS**

SDS DATE: 05/14/2021

SUPPLIER: Mid-American Research Chemical Corp.

ADDRESS: P. O. Box 927 • Columbus, NE 68602-0927

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RECOMMENDED USE: Coating for plastics.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Aerosols - Category 1; Gases Under Pressure - Liquefied Gas; Aspiration Hazard - Category 1; Skin Irritation - Category 2; Reproductive Toxicity - Category 2; Specific Target Organ Toxicity - Repeated Exposure - Category 2; Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) - Category 3. **SIGNAL WORD: DANGER. Hazardous Statements** – Physical: H222 - Extremely flammable aerosol.



H280 - Contains gas under pressure; may explode if heated. **Hazardous Statements – Health:** H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H361 - Suspected of damaging fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. H336 - May cause drowsiness or dizziness. H336 - May cause drowsiness or dizziness. **Precautionary Statements – General:** P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P103 - Read label before use. **Precautionary Statements – Prevention:** P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 - Do not spray on an open flame or other ignition source. P251 - Do not pierce or burn, even after use. P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing, eye protection and face protection. P264 - Wash hands thoroughly after handling. P260 - Do not breathe mist, vapors or spray. P271 - Use only outdoors or in a well-ventilated area. **Precautionary Statements – Response:** P314 - Get medical attention if you feel unwell. P308 + P313 - IF exposed or concerned: Get medical attention. P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P331 - Do NOT induce vomiting. P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P332 + P313 - If skin irritation occurs: Get medical attention. P362 + P364 - Take off contaminated clothing and wash it before reuse. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 - Call a POISON CENTER or doctor if you feel unwell. **Precautionary Statements – Storage:** P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P403 + P405 - Store in a well-ventilated place. Store locked up. **Precautionary Statements – Disposal:** P501 - Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Specific percentages may be claimed as a trade secret.

<u>CAS NO.</u>	<u>CHEMICAL NAME</u>	<u>% BY WEIGHT</u>
0000110-54-3	Hexane	10% - 20%
0000106-97-8	Butane	20% - 50%
0064742-49-0	VM & P Naphtha	10% - 25%
0000074-98-6	Propane	10% - 20%
0008042-47-5	Mineral Oil	1% - 5%

SECTION 4: FIRST AID MEASURES

Inhalation: Move to fresh air. **Eye Contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention. **Skin Contact:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention. **Ingestion:** Rinse mouth. Call a physician or poison control center immediately. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. **Most Important Symptoms/Effects, Acute and Delayed:** No data available. **Indication of Immediate Medical Attention and Special Treatment Needed:** Symptoms may be delayed.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use fire-extinguishing media appropriate for surrounding materials. **Unsuitable Extinguishing Media:** Do NOT use water jet as an extinguisher, as it will spread the fire. **Specific Hazards in Case of Fire:** Vapors may travel considerable distance to a source of ignition and flash back. **Fire-Fighting Procedures:** Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk. **Special Protective Actions:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedure: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. **Recommended Equipment:** See section 8 if the SDS for Personal Protective Equipment. **Personal Precautions:** Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. **Environmental Precautions:** Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment. **Methods and Materials for Containment and Cleaning Up:** Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

SECTION 7: HANDLING AND STORAGE

General: Do not puncture or incinerate (burn) cans. Do not stick pins, nails, or any other sharp objects into opening on top of can. Do not spray in eyes. Do not take internally. **Ventilation Requirements:** Use in a well-ventilated place. **Storage Room Requirements:** Store and use in a cool, dry, well-ventilated area. Do not store above 120°F. See product label for additional information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Wear safety glasses with side shields. Eyewash stations and showers should be available in areas where this material is used and stored. **Skin Protection:** Use solvent-resistant protective gloves for prolonged or repeated contact. **Respiratory Protection:** Avoid breathing vapors. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, use an approved airline respirator or hood. A self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits. **Appropriate Engineering Controls:** Ventilation should be sufficient to prevent inhalation of any vapors.

Chemical Name	OSHA TWA (mg/m3)	OSHA TWA (ppm)	OSHA STEL (mg/m3)	OSHA Carcinogen	OSHA Skin designation	OSHA Tables (Z1, Z2, Z3)	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)
BUTANE								
HEXANE	1800	500				1		50
MINERAL OIL							[(L)]; [5 (I)];	(L)
PROPANE	1800	1000				1		
VM & P NAPHTHA	2000	500				1	[(L)]; [5 (I)];	(L)

Chemical Name	NIOSH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH Carcinogen	ACGIH TLV Basis	ACGIH Notations	NIOSH TWA (mg/m3)	NIOSH TWA (ppm)
BUTANE			1000 (EX)		CNS impair		1900	800
HEXANE					CNS impair; peripheral	Skin; BEI	1 8 0	50
MINERAL OIL				[A2]; [A4];	URT irr	[A2]; [A4];		
PROPANE			Simple asphyxiant (D), explosion hazard (EX)		Asphyxia		1800	1000

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

DENSITY: 5.92 lbs/gal
DENSITY VOC: 4.02 lbs/gal
%VOC: 68%
APPEARANCE-PHYSICAL STATE/COLOR: N.A.
 Clear spray.
ODOR THRESHOLD: N.A.
ODOR DESCRIPTION: N.A.
SOLUBILITY IN WATER: Nil
FLAMMABILITY: Flashpoint below 73°F



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FLASH POINT SYMBOL:	N.A.
FLASH POINT:	N.A.
VISCOSITY:	N.A.
MELTING/FREEZING POINT:	N.A.
VAPOR DENSITY (AIR = 1):	Slower than ether.
AUTO-IGNITION TEMPERATURE:	N.A.
EVAPORATION RATE:	Slower than ether.
SPECIFIC GRAVITY:	0.71

SECTION 10: STABILITY AND REACTIVITY

Stability: The product is stable under normal storage conditions. **Conditions to Avoid:** High temperatures. **Incompatible Materials:** No data available. **Hazardous Reactions/Polymerization:** None known. **Hazardous Decomposition Products:** Hazardous decomposition products may include carbon dioxide, carbon monoxide, and other toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation: Causes skin irritation. **Likely Route of Exposure:** Inhalation, ingestion, skin absorption. **Serious Eye Damage/Irritation:** Based on available data, the classification criteria are not met. **Carcinogenicity:** Based on available data, the classification criteria are not met. **Germ Cell Mutagenicity:** Based on available data, the classification criteria are not met. **Reproductive Toxicity:** Suspected of damaging fertility or the unborn child. **Respiratory/Skin Sensitization:** Based on available data, the classification criteria are not met. **Specific Target Organ Toxicity - Single Exposure:** May cause drowsiness or dizziness. **Specific Target Organ Toxicity - Repeated Exposure:** May cause damage to organs through prolonged or repeated exposure. **Aspiration Hazard:** May be fatal if swallowed and enters airways. **Acute Toxicity:** Based on available data, the classification criteria are not met.

Potential Health Effects-Miscellaneous--

0000110-54-3	HEXANE
LC50 (male rat):	38500 ppm (4-hour exposure); cited as 77000 ppm (271040 mg/m ³) (1-hour exposure)(15)
LC50 (rat):	48000 ppm (4-hour exposure) (16)
LC50 (rat):	73680 ppm (260480 mg/m ³) (4-hour exposure)(n-hexane and isomers) (1.3)
LD50 (oral, 14-day old rat):	15840 mg/kg (3)
LD50 (oral, young rat):	32340 mg/kg (3)
LD50 (oral, adult rat):	28700 mg/kg (3, 16)

0000075-28-5	ISOBUTANE
LC50 (mouse, inhalation):	52,000 ppm (52%); (2-hour exposure) (4)

0000106-97-8	BUTANE
LC50 (mouse):	202000 ppm (481000 mg/m ³) (4-hour exposure); cited as 680 mg/L (2-hour exposure) (9)
LC50 (rat):	276000 ppm (658000 mg/m ³) (4-hour exposure); cited as 658 mg/L (4-hour exposure) (9)

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: Based on available data, the classification criteria are not met. **Persistence and Degradability:** No data available. **Bioaccumulative Potential:** No data available. **Mobility in Soil:** No data available. **Other Adverse Effects:** No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Under RCRA, it is the responsibility of the user of the product, to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws. Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (for ground/non-bulk containers)

CONTAINER SIZE(S):	Aerosol Can
PROPER SHIP. NAME:	CLEANING COMPOUND
HAZARD CLASS:	N/A
ID NUMBER:	N/A
PACKING GROUP:	N/A
LABEL STATEMENT:	LTD QTY



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SECTION 15: REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0000106-97-8	BUTANE	20% - 50%	SARA312, VOC, TSCA, ACGIH
0064742-49-0	VM & P NAPHTHA	10% - 25%	SARA312, VOC, TSCA, ACGIH, OSHA
0000110-54-3	HEXANE	10% - 20%	SARA313, CERCLA, HAPS, SARA312, VOC, TSCA, ACGIH, California Proposition 65 - Male Toxicity
0000074-98-6	PROPANE	10% - 20%	SARA312, VOC, TSCA, ACGIH, OSHA
0008042-47-5	MINERAL OIL	1% - 5%	SARA312, TSCA, ACGIH
0000108-88-3	TOLUENE	Trace	SARA313, CERCLA, HAPS, SARA312, VOC, TSCA, RCRA, ACGIH, California Proposition 65 - Developmental, OSHA
0000071-43-2	BENZENE	Trace	SARA313, CERCLA, HAPS, SARA312, VOC, TSCA, RCRA, ACGIH, California Proposition 65 - Cancer - Developmental - Male Toxicity, OSHA
0000100-41-4	ETHYLBENZENE	Trace	SARA313, CERCLA, HAPS, SARA312, VOC, TSCA, ACGIH, California Proposition 65 - Cancer, OSHA
0000091-20-3	NAPHTHALENE	Trace	SARA313, CERCLA, HAPS, SARA312, VOC, TSCA, RCRA, ACGIH, California Proposition 65 - Cancer, OSHA,

SECTION 16: OTHER INFORMATION

GLOSSARY:

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ- Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94- 469; TWA- Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

HMIS/NFPA Ratings: Health = 2; Flammability = 4; Reactivity = 0; Other = None; Protection = B.

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